Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/C-Agg/127/2019-20	Date	14.11.2019
TEST REPORT ON COARSE AGGREGATE		
Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.	
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.	
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division	
Job Code No	003-20-000069	
Client's letter dated	12.11.2019	
Source of Sample	Supplied by the Client	
No. of Sample*	Coarse Aggregate - 20mm	
Date of Testing	13.11.2019	
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016	

Gradation of 20mm Aggregate

20mm	Weight of Sample in gm		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	450	9.00	9.00	91.00	85-100	90 to 100	
10	4410	88.20	97.20	2.80	0 to 20	25 to 55	
4.75	40	0.80	98.00	2.00	0 to 5	0 to 10	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj.K.S

Approved By
Narayanswamy.B

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/C-Agg/128/2019-20	Date	14.11.2019

TEST REPORT ON COARSE AGGREGATE

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Job Code No	003-20-000069
Client's letter dated	12.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Coarse Aggregate - 20mm
Date of Testing	13.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 IS: 383 – 2016

Gradation of 40mm Aggregate

40mm	Weight of Sample		5000		IS : 2386(Part-I)		Remarks
Sieve No	Wt of Aggregate	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0	0	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	458	9.16	9.16	90.84	85-100	90 to 100	
20	3128	62.56	71.72	28.28	0 to 20	30 to 70	
10	820	16.4	88.12	11.88	0 to 5	10 to 25	
4.75	350	7	95.12	4.88	-	0 to 5	

* As furnished by the Client.

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj.K.S

Approved By
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/M-Sand/133/2019-20	Date	14.11.2019

TEST REPORT ON FINE AGGREGATES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar- 2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000069
Client's letter dated	12.11.2019
Source of Sample	Supplied by the Client
No. of Sample*	Fine Aggregate- M-Sand
Date of Testing	13.11.2019
Technical Reference	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

Gradation of Fine Aggregate-M-Sand

Sieve No	Wt of soil	% tage retained	Cumulative % retained	% tage finer	Percentage passing for Zone I	Zone II	Zone III	Zone IV	Remarks
10	0	0	0	*100*	100	*100*	100	100	
4.75	0	0.00	0.00	*100.00*	90 – 100	*90 – 100*	90 – 100	90-100	
2.36	11	1.10	1.10	*98.90*	60 – 95	*75 – 100*	85 – 100	95-100	Falls in Zone – 2 as per Table 4 of IS-383 – 2016
1.18	200	20.00	21.10	*78.90*	30 – 70	*55 – 90*	75 – 100	90-100	
0.6	322	32.20	53.30	*46.70*	15 – 34	*35 – 59*	60 – 79	80-100	
0.3	252.6	25.26	78.56	*21.44*	5 – 20	*8 – 30*	12 – 40	15-50	
0.15	170	17.00	95.56	*4.44*	0 – 10	*0 – 10*	0 – 10	0-15	
Silt content				4.80	Shall not be more than 20%				Passes the requirements

* As furnished by the Client.

Note: The above Sample satisfies the requirement of Zone – 2 as per Table 4 of IS-383 – 2016

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked By
Nagaraj K.S

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Approved By
Narayanswamy.B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Cement/134/2019-20		Date	19.11 2019
PHYSICAL TEST REPORT ON CEMENT			
Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.		
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.		
Job Code No	003-20-000069		
Letter dated	17.11.2019		
Sample Received on	Supplied by the Client		
Source of Sample	Supplied by the Client		
Date of Testing	18.11.2019		
Type of cement & Brand of Cement*	*OPC Cement –penna-43 Grade*		
Technical Reference	IS: 403(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989		

Physical Properties

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	33	Not specified	-
2	Initial setting time in minutes	124	Shall not be less than 30 minutes	P
3	Final setting time in minutes	312	Shall not be more than 600 minutes	P

*As Furnished by the client
P : Passes IS requirement
F: Fails IS requirements
TTC : Test to be conducted

For **Karnataka Material Test House Pvt. Ltd.,**

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Engineer Incharge

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Steel/135/2019-20	Date of issue	22.11.2019

PHYSICAL TEST REPORT ON STEEL Reinforcement BARS

Name of Client	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000069
Source of Sample	Supplied by Client
Sample Received on	20.11.2019
Nature of Sample*	Steel – 3Nos.(8,10,12mm)
Grade of Steel*	Fe-500 TMT Bars
Technical Reference	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia (mm)	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 √AG.L)	Remarks
1	Fe-500 TMT Bars	8	0.399	506.970	550.756	31.500	Passes
2		10	0.616	509.615	533.316	29.300	Passes
3		12	0.858	692.687	778.504	24.000	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re-bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test.
2	10	5 dia	No cracks observed. Passes the test.
3	12	5 dia	No cracks observed. Passes the test.

* As furnished by the Client

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Muniswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-136/2019-20	Date of issue	11.12.2019

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhivrudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Job Code No	003-20-000069
Letter Dated	10.12.2019
Source of Sample	Supplied by the Client
Dimension of Specimens	152.62mm X 150.24mm X 152.06mm 151.27mm X 150.00mm X 149.95mm 152.14mm X 152.36mm X 152.22mm
Grade of Concrete *	M-20
Chainage in Meters	**Ch : 0.0 to 30.0 - 1st main LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Raft Concrete (Drains)	03.12.2019	10.12.2019	07 Days	22929.62	8265	410.88	17.92
2		03.12.2019	10.12.2019		22690.50	8156	413.41	18.22
3		03.12.2019	10.12.2019		23180.05	8301	426.51	18.40

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.).

*As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj K.S

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Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-139/2019-20	Date of issue	02.01.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhivrudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettihalli, Bengaluru-560094
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-2020
Job Code No	003-20-000069
Letter Dated	01.01.2020
Source of Sample	Supplied by the Client
Dimension of Specimens	152.14mm X 150.26mm X 149.80mm 152.30mm X 151.99mm X 149.62mm 152.62mm X 152.62mm X 152.60mm
Grade of Concrete *	M-20
Chainage in Meters	**Ch. 0.0 to 30.0 - 1st main LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Raft Concrete (Drains)	03.12.2019	01.01.2020	28 Days	22860.55	8263	499.71	21.86
2		03.12.2019	01.01.2020		23148.07	8485	516.20	22.30
3		03.12.2019	01.01.2020		23292.86	8362	538.51	23.12

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.). *As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj.K.S

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No. : KMTH/Cubes-145/2019-20	Date of issue	04.01.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client and Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of the Agency	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhivrudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettihalli, Bengaluru-560094
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-2020
Job Code No	003-20-000069
Letter Dated	03.01.2020
Source of Sample	Supplied by the Client
Dimension of Specimens	151.48mm X 151.40mm X 152.56mm 153.86mm X 151.58mm X 152.42mm 153.47mm X 153.38mm X 153.71mm
Grade of Concrete *	M-20
Chainage in Meters	**C h. 0.0 to 30.00 - 1st Cross LHS**

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete cube specimens, supplied by the client and the results are tabulated here below:

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Date of casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load in KN	Compressive Strength In N/mm^2*
1	Side Wall Concrete (Drains)	06.12.2019	03.01.2020	28 Days	23097.58	8202	516.44	22.36
2		06.12.2019	03.01.2020		23103.82	8334	546.15	23.64
3		06.12.2019	03.01.2020		23576.03	8136	562.52	23.86

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.). *As Furnished by the client

**Based on the data furnished by the client

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959.

For Karnataka Material Test House Pvt. Ltd

Prepared & Checked by
Nagaraj.M.S

Approved By
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No : KMTH/CCKerbs/155/2019-20	Date of Issue	28.01.2020

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Name of the Project*	Construction of RCC Drains & Culverts at Anugraha Layout, Muniswamappa Layout and Sai Nagar-2 and Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division.
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Work order Number	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Sample Received on	26.01.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	27.12.2020
Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:	

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F. H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.01	180.00	1.89	7086	176.2	24.87	0.99	24.58	30.72	27.83	2800.00	0.00128	2195215.87
2	S-02	92.00	178.02	1.94	6644	150.0	22.58	0.99	22.41	28.02		2760.00	0.00118	2333431.06
3	S-03	92.20	179.24	1.94	6673	133.0	19.93	0.99	19.81	24.76		2826.00	0.00120	2362684.45

*As furnished by the Client

Remarks:

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by
Nagaraja K S

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Approved by
Narayanswamy.B

End of Report

Note: 1) This report is not to be reproduced except in full without our prior permission in writing
2) The results listed refer only to the tested samples and applicable parameters
3) Any Correction in this report will this report Invalid

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